

ABSTRACT

A system and method wherein a bus arbiter grants access to a bus to bus-coupled clients in order to provide access to a memory resource shared by the clients in response to "address retry" conditions induced by such clients. The bus arbiter provides access to the bus in response to whether one of the requesting clients experienced an "address retry" condition during its previous bus access. If such an address retry condition was experienced during its previous bus access, the bus arbiter grants such one of the requesting clients access to the bus at the earliest opportunity. Otherwise, the bus arbiter provides bus access to the requesting one, or ones, of the clients based on criteria independent of "address retry" conditions being induced on the bus.